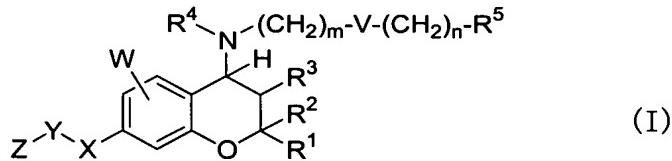


Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A benzopyran compound of formula (I)



wherein

X is NR⁶ wherein R⁶ is hydrogen atom or C₁₋₄ alkyl group;

Y is a bond, SO or SO₂;

Z is C₁₋₄ alkyl group (wherein the C₁₋₄ alkyl group may be arbitrarily substituted with 1 to 5 halogen atoms or phenyl group (wherein the phenyl group may be arbitrarily substituted with C₁₋₄ alkyl group)) or phenyl group (wherein the phenyl group may be arbitrarily substituted with C₁₋₄ alkyl group);

W is hydrogen atom, hydroxy group, C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), halogen atom, C₁₋₄ alkyl group or C₁₋₆ alkylsulfonylamino group;

R¹ and R² are independently of each other C₁₋₃ alkyl group (wherein the C₁₋₃ alkyl group may be arbitrarily substituted with hydroxy group, methoxy group, halogen atom or trifluoromethoxy group);

R³ is hydrogen atom, hydroxy group or methoxy group;

m is an integer of 0 to 4;

n is an integer of 0 to 4;

V is a single bond, CR⁷R⁸ wherein R⁷ is

- C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, hydroxy group, C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily

substituted with halogen atom), C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group (wherein each of the C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁰ wherein R¹⁰ is halogen atom; hydroxy group; C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom)); C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom); nitro group; cyano group; formyl group; formamide group; sulfonylamino group; sulfonyl group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆ alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxycarbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group or C₆₋₁₄ arylcarbonyl group, and when a plurality of R¹⁰ are present, they may be identical or different from each other), -C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group (wherein each of the C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group may be arbitrarily substituted with 1 to 3 R¹⁰ wherein R¹⁰ has the above-mentioned meaning));

- hydroxy group or
- C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), and R⁸ is
 - hydrogen atom,
 - C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, hydroxy group, C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom)),
 - C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group (wherein each of the C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group may be arbitrarily substituted with 1 to 3 R¹¹ wherein R¹¹ is halogen atom; hydroxy group; C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may

be arbitrarily substituted with halogen atom)); C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom); nitro group; cyano group; formyl group; formamide group; sulfonylamino group; sulfonyl group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆ alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxy carbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group or C₆₋₁₄ arylcarbonyl group, and when a plurality of R¹¹ are present, they may be identical or different from each other),

- hydroxy group or
- C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), or R⁷ together with R⁸ may represent O or S, or V is NR⁹ wherein R⁹ is hydrogen or C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), hydroxy group, C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group (wherein each of the C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group may be arbitrarily substituted with 1 to 3 R¹¹ wherein R¹¹ has the above-mentioned meaning)); or O, S, SO or SO₂;

R⁴ is hydrogen or C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), or hydroxy group); and

R⁵ is

- hydrogen atom,
- C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group),
- C₃₋₈ cycloalkyl group or C₃₋₈ cycloalkenyl group (wherein the C₃₋₈ cycloalkyl group or C₃₋₈

cycloalkenyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), amino group, carboxy group or hydroxy group), C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom), amino, carboxy group or hydroxy group), or

- C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group (wherein each of the C₆₋₁₄ aryl group or C₂₋₉ heteroaryl group may be arbitrarily substituted with 1 to 3 R¹² wherein R¹² is halogen atom; hydroxy group; C₁₋₆ alkyl group (wherein the C₁₋₆ alkyl group may be arbitrarily substituted with halogen atom, hydroxy group or C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom)); C₁₋₆ alkoxy group (wherein the C₁₋₆ alkoxy group may be arbitrarily substituted with halogen atom); nitro group; cyano group; formyl group; formamide group; sulfonylamino group; sulfonyl group; amino group; C₁₋₆ alkylamino group; di-C₁₋₆ alkylamino group; C₁₋₆ alkylcarbonylamino group; C₁₋₆ alkylsulfonylamino group; aminocarbonyl group; C₁₋₆ alkylaminocarbonyl group; di-C₁₋₆ alkylaminocarbonyl group; C₁₋₆ alkylcarbonyl group; C₁₋₆ alkoxycarbonyl group; aminosulfonyl group; C₁₋₆ alkylsulfonyl group; carboxy group, C₆₋₁₄ arylcarbonyl group, ureido group, C₁₋₆ alkylureilene group, C₆₋₁₄ aryl C₁₋₆ alkylamino group, C₁₋₆ alkoxycarbonylamino group, C₆₋₁₄ aryloxy group or C₆₋₁₄ arylcarbonylamino group, when a plurality of R¹² are present, they may be identical or different from each other).

2. (Original) The benzopyran compound according to claim 1, wherein both R¹ and R² are methyl group, R³ is hydroxy group, and V is a single bond.

3. (Original) The benzopyran compound according to claim 1, wherein both R¹ and R² are methyl group, R³ is hydroxy group, and V is CR⁷R⁸.

4. (Original) The benzopyran compound according to claim 1, wherein both R¹ and R² are methyl group, R³ is hydroxy group, and V is NR⁹.

5. (Currently Amended) The benzopyran compound according to claim 2,

wherein R⁵ is C₁₋₆ alkyl group, C₃₋₈ cycloalkyl group or C₆₋₁₄ aryl group.

6. (Currently Amended) The benzopyran compound according to claim 3,

wherein R⁵ is C₁₋₆ alkyl group, C₃₋₈ cycloalkyl group or C₆₋₁₄ aryl group.

7. (Currently Amended) The benzopyran compound according to claim 4,

wherein R⁵ is C₁₋₆ alkyl group, C₃₋₈ cycloalkyl group or C₆₋₁₄ aryl group.

8. (Original) The benzopyran compound according to claim 5, wherein W is hydrogen atom, hydroxy group, methoxy group, chlorine atom, bromine atom, methyl group, ethyl group or methylsulfonylamino group.

9. (Original) The benzopyran compound according to claim 6, wherein W is hydrogen atom, hydroxy group, methoxy group, chlorine atom, bromine atom, methyl group, ethyl group or methylsulfonylamino group.

10. (Currently Amended) The benzopyran compound according to claim 8,

wherein R⁵ is C₁₋₆ alkyl group or C₆₋₁₄ aryl group, R⁶ is hydrogen atom or methyl group, Y is SO₂, and Z is C₁₋₄ alkyl group.

11. (Original) The benzopyran compound according to claim 8, wherein R⁵ is C₁₋₆ alkyl group or C₆₋₁₄ aryl, R⁶ is hydrogen atom or methyl group, Y is a bond, and Z is C₁₋₄ alkyl group.

12. (Original) A benzopyran compound which is N-{(3R*, 4S*)-3-hydroxy-6-methoxy-2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2H-1-benzopyran-7-yl}-methanesulfonamide.

13. (Original) A benzopyran compound which is N-{(3R*, 4S*)-3,6-dihydroxy-2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2H-1-benzopyran-7-yl}methanesulfonamide.

14. (Original) A benzopyran compound which is N-{(3R*, 4S*)-3-hydroxy-6-methoxy-2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2H-1-benzopyran-7-yl}-N-

methylmethanesulfonamide.

15. (Original) A benzopyran compound which is N- $\{(3R^*, 4S^*)\text{-}4\text{-[(2-cyclohexylethyl)amino]\text{-}3\text{-hydroxy\text{-}6\text{-methoxy\text{-}2,2\text{-dimethyl\text{-}3,4\text{-dihydro\text{-}2H\text{-}1\text{-benzopyran\text{-}7\text{-yl}}] methanesulfonamide.}$

16. (Original) A benzopyran compound which is N- $\{(3R^*, 4S^*)\text{-}3\text{-hydroxy\text{-}6\text{-methoxy\text{-}2,2\text{-dimethyl\text{-}4\text{-(pentylamino)\text{-}3,4\text{-dihydro\text{-}2H\text{-}1\text{-benzopyran\text{-}7\text{-yl}}] methanesulfonamide.}$

17. (Original) A benzopyran compound which is N- $\{(3R^*, 4S^*)\text{-}3\text{-hydroxy\text{-}2,2,8\text{-trimethyl\text{-}4\text{-[(2-phenylethyl)amino]\text{-}3,4\text{-dihydro\text{-}2H\text{-}1\text{-benzopyran\text{-}7\text{-yl}}] methanesulfonamide.}$

18. (Original) A benzopyran compound which is N- $\{(3R^*, 4S^*)\text{-}3\text{-hydroxy\text{-}2,2\text{-dimethyl\text{-}4\text{-[(2-phenylethyl)amino]\text{-}3,4\text{-dihydro\text{-}2H\text{-}benzopyran\text{-}7\text{-yl}}] methanesulfonamide maleate.$

19. (Currently Amended) A benzopyran compound which is N- $\{(3R^*, 4S^*)\text{-}3\text{-hydroxy\text{-}2,2\text{-dimethyl\text{-}4\text{-[(2-phenylethyl)amino]\text{-}3,4\text{-dihydro\text{-}2H\text{-}benzopyran\text{-}7\text{-yl}}] ethanesulfonamide hydrochloride.$

20. (Currently Amended) A benzopyran compound which is 1,1,1-trifluoro-N- $\{(3R^*, 4S^*)\text{-}3\text{-hydroxy\text{-}2,2\text{-dimethyl\text{-}4\text{-[(2-phenylethyl)amino]\text{-}3,4\text{-dihydro\text{-}2H\text{-}benzopyran\text{-}7\text{-yl}}] methanesulfonamide maleate.$

21. (Currently Amended) A benzopyran compound which is N- $\{(3R^*, 4S^*)\text{-}3\text{-hydroxy\text{-}2,2\text{-dimethyl\text{-}4\text{-[(2-phenylethyl)amino]\text{-}3,4\text{-dihydro\text{-}2H\text{-}benzopyran\text{-}7\text{-yl}}\text{-}N\text{-methylmethanesulfonamide hydrochloride.$

22. (Original) A benzopyran compound which is N- $\{(3R^*, 4S^*)\text{-}6\text{-bromo\text{-}3\text{-hydroxy\text{-}2,2\text{-dimethyl\text{-}4\text{-[(2-phenylethyl)amino]\text{-}3,4\text{-dihydro\text{-}2H\text{-}benzopyran\text{-}7\text{-yl}}\text{-} methanesulfonamide.$

23. (Currently Amended) A benzopyran compound which is $(3R^*, 4S^*)$ -2,2-dimethyl-7-dimethylamino-4-[(2-phenylethyl)amino]-3-chromanol hydrochloride.
24. (Currently Amended) A benzopyran compound which is $(3R^*, 4S^*)$ -2,2-dimethyl-7-methylamino-4-[(2-phenylethyl)amino]-3-chromanol hydrochloride.
25. (Currently Amended) A benzopyran compound which is $(3R^*, 4S^*)$ -4-{{[2-(4-fluorophenyl)ethyl]amino}-2,2-dimethyl-7-dimethylamino-3-chromanol hydrochloride.
26. (Original) A benzopyran compound which is $(3R^*, 4S^*)$ -6-methoxy-2,2-dimethyl-7-dimethylamino-4-[(2-phenylethyl)amino]-3-chromanol.
27. (Currently Amended) A benzopyran compound which is $(3R^*, 4S^*)$ -6-methoxy-2,2-dimethyl-7-methylamino-4-[(2-phenylethyl)amino]-3-chromanol hydrochloride.
28. (Original) A benzopyran compound which is N-{{ $(3R^*, 4S^*)$ -3-hydroxy-2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2H-benzopyran-7-yl}}-4-methylbenzenesulfonamide.
29. (Original) A benzopyran compound which is N-{{ $(3R^*, 4S^*)$ -3-hydroxy-2,2-dimethyl-6-[(methylsulfonyl)amino]-4-[(2-phenylethyl)amino]-3,4-dihydro-2H-benzopyran-7-yl}}-methanesulfonamide.
30. (Currently Amended) A benzopyran compound which is $(3R^*, 4S^*)$ -2,2-dimethyl-7-methylethylamino-4-[(2-phenylethyl)amino]-3-chromanol hydrochloride.
31. (Currently Amended) A benzopyran compound which is N-{{ $(3R^*, 4S^*)$ -3-hydroxy-2,2-dimethyl-4-[(2-phenylethyl)amino]-3,4-dihydro-2H-chromen-7-yl}}-N-isopropylmethanesulfonamide hydrochloride.
32. (Previously Presented) A pharmaceutical characterized by comprising the benzopyran compound according to claim 1 or pharmaceutically acceptable salt thereof as an active ingredient.
33. (Previously Presented) A pharmaceutical for treating arrhythmia characterized

by comprising the benzopyran compound according claim 1 or pharmaceutically acceptable salt thereof as an active ingredient.